

Appl. No. 10/602,473

AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1. (currently amended) A method for manufacturing a fluid impermeable translucent laminate, said laminate comprising ~~consisting of~~ at least one woven scrim layer disposed between at least two outer vinyl translucent layers; said method comprising:

- a. ~~A step for~~ immersing said scrim in a liquid plastisol adhesive to substantially coat coating said scrim with a ~~suitable plastisol~~ said adhesive;
- b. ~~A step for~~ substantially removing said adhesive from the interstices between the warp and fill strands of said scrim;
- c. ~~A step for~~ heating said scrim and said adhesive to a suitable temperature for bonding said scrim and said adhesive to said outer vinyl layers;

Appl. No. 10/602,473

- d. ~~A step for~~ heating said outer vinyl layers to a suitable temperature for bonding with said adhesive and said scrim; and
- e. ~~A step for~~ passing ~~bringing~~ said scrim and said vinyl layers together between adjacent rollers under sufficient pressure and at a suitable temperature ~~such that the~~ to bond said outer vinyl layers ~~bond~~ to said scrim.

2. (original) The method of claim 1 wherein the warp and fill strands of said scrim are comprised of a polyester material.

3. (original) The method of claim 1 wherein the warp and fill strands of said scrim are comprised of a polyamide.

4. (original) The method of claim 1 wherein the warp and fill strands of said scrim are comprised of an aromatic polyamide.

5. (original) The method of claim 1 wherein the warp and fill strands of said scrim are comprised of rayon.

Appl. No. 10/602,473

6. (original) The method of claim 1 wherein the adhesive used is comprised of a mixture of methyl ethyl ketone, isocyanate and polyurethane.

7. (original) The method of claim 1 wherein the outer vinyl layers are comprised of a polyolefin.

8. (original) The method of claim 1 wherein the outer vinyl layers are comprised of polyvinyl chloride.

9. (original) The method of claim 1 wherein the outer vinyl layers are comprised of polyvinyl fluoride.

10. (currently amended) The method of claim 1 wherein the outer vinyl layers have a thickness between ~~.225~~ .220 mm to .4 mm.

11. (original) The method of claim 1 wherein the outer vinyl layer has a thickness greater than .220mm.

12. (original) The method of claim 1 wherein the warp and fill of the scrim are comprised of strands each with a thickness greater than 500 denier.

Appl. No. 10/602,473

13. (original) The method of claim 1 wherein the warp and fill of the scrim are comprised of strands with a thickness up to 2000 denier.

14. (original) The method of claim 1 wherein the warp of the scrim is comprised of between 3 to 20 strands per inch.

15. (original) The method of claim 1 wherein the fill of the scrim is comprised of between 3 to 20 strands per inch.

16. (currently amended) The method of claim 1 wherein the vinyl layers are heated for up to 1 minute in an oven set at a temperature of ~~at least 170~~ up to 180 degrees Celsius and the scrim coated with adhesive is heated for ~~up to~~ approximately 1 minute in an oven set at least at 98 degrees Celsius.

17. (original) A method as claimed in claim 1 further comprising a method for tinting the laminate a particular color.

18. (currently amended) A method for manufacturing a fluid impermeable translucent laminate, said laminate comprising ~~consisting of at least~~ one woven scrim layer disposed between at

Appl. No. 10/602,473

least two outer vinyl translucent layers; said method comprising:

- a. ~~A step for~~ immersing said scrim in an adhesive comprised of a mixture of methyl ethyl ketone, isocyanate and polyurethane to substantially coat ~~coating~~ said scrim with said adhesive
- b. ~~A step for~~ substantially removing said adhesive from the interstices between the warp and fill strands of said scrim by passing a roller, having grooves on its surface which correspond to the size and pattern of the scrim, over said scrim to force the adhesive out;
- c. ~~A step for~~ heating said scrim coated with said adhesive for ~~at least 30 seconds~~ approximately 1 minute in an oven set between 98 and 104 degrees Celsius and heating said vinyl layers for ~~at least 30 seconds~~ approximately 1 minute in an oven set at a temperature ~~between 175 and 180~~ of up to 180 degrees Celsius; and
- d. ~~A step for~~ bringing passing said scrim and said vinyl layers together between adjacent rollers under sufficient pressure and at a suitable

Appl. No. 10/602,473

temperature ~~such that said~~ to bond said vinyl
layers ~~bond~~ to said scrim.

19. (currently amended) A method for manufacturing a fluid impermeable translucent laminate, said laminate ~~consisting of~~ comprising at least one woven scrim layer disposed between at least two outer vinyl translucent layers, wherein the scrim layer is comprised of a warp and a fill each with a density of between ± 3 to 20 strands per inch and a thickness between 500 to 2000 Denier;

said method comprising:

- a. ~~A step for~~ substantially coating said scrim with an adhesive comprised of a mixture of methyl ethyl ketone, isocyanate and polyurethane;
- b. ~~A step for~~ substantially removing said adhesive from the interstices between the warp and fill strands of said scrim;
- c. ~~A step for~~ heating said scrim coated with said adhesive for ~~at least 30 seconds~~ approximately 1 minute in an oven set at a temperature of at least 98 degrees Celsius and heating said vinyl layers for ~~at least 30 seconds~~ approximately 1

Appl. No. 10/602,473

minute in an oven set at a temperature of at
~~least 175~~ up to 180 degrees Celsius; and

- d. ~~A step for~~ compressing said scrim and said vinyl layers together with a force between 40 and 60 kilograms per square centimeter at a suitable temperature to bond ~~such that~~ said outer vinyl layers ~~bond~~ with said scrim.

20. (withdrawn) A translucent laminate product produced by the method as claimed in any one of the preceding claims.

21. (new) A continuous method for manufacturing a fluid impermeable translucent laminate, said laminate comprising one woven scrim layer disposed between two outer vinyl translucent layers; said method comprising:

- a. feeding a continuous roll of scrim through a tank containing an adhesive comprising a mixture of methyl ethyl ketone, isocyanate and polyurethane to substantially coat said scrim with said adhesive;
- b. continuously, substantially removing said adhesive from the interstices between the warp and fill strands of said scrim by continuously

Appl. No. 10/602,473

forcing air or other fluids through the interstices in said scrim to force the adhesive out;

- c. continuously heating said scrim coated with said adhesive for approximately 1 minute by feeding said roll of scrim through an oven set at a temperature up to 107 degrees Celsius;
- d. continuously heating said vinyl layers for at approximately 1 minute in an oven set at a temperature up to 180 degrees Celsius, by continuously feeding two rolls of vinyl through the oven; and
- e. continuously passing said scrim and said vinyl layers together between adjacent rollers under sufficient pressure and at a suitable temperature to bond said vinyl layers, one to each side of said scrim.

22. (new) The method of Claim 1 in which the adhesive is substantially removed from the interstices between the warp and fill strands of said scrim by forcing air or other fluids through the interstices in said scrim.

Appl. No. 10/602,473

23. (new) The method of Claim 1 in which the adhesive is substantially removed from the interstices between the warp and fill strands of said scrim by passing said scrim between a pair of rollers to squeeze the adhesive out.

24. (new) The method of Claim 1 in which the adhesive is substantially removed from the interstices between the warp and fill strands of said scrim by passing a roller, having small bumps on its surface, over said scrim to force the adhesive out.

25. (new) The method of Claim 1 in which the adhesive is substantially removed from the interstices between the warp and fill strands of said scrim by passing a roller, having grooves on its surface which correspond to the size and pattern of the scrim, over said scrim to force the adhesive out.

26. (new) The method of Claim 1 in which said scrim is heated by passing said adhesive coated scrim through an oven, or by passing the scrim through heated rollers.

27. (new) The method of Claim 1 in which said outer vinyl layers are heated by passing said vinyl layers through an oven, or by passing the vinyl layers through heated rollers.